

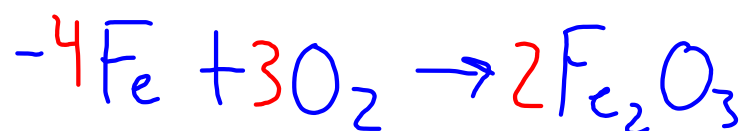
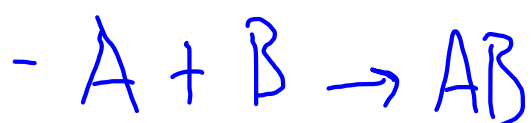
Reactions Continued...

- Energy in reactions:
 - Exothermic \rightarrow produce thermal energy, causing a temperature rise
 - Endothermic \rightarrow require a lot of energy, so temperature drops
- Catalyst
 - Every reaction happens at some rate.
 - A catalyst speeds up the rate of reaction.
 - Never changed and never used up in the reaction.
 - Each catalyst has one specific job.

Types of Reactions:

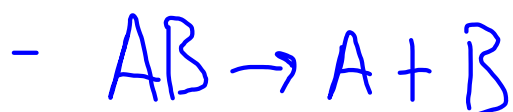
- Addition (Synthesis):

- Two or more substances combine to form a new compound



- Decomposition:

- Compounds broken into two or more smaller compounds



- Single Displacement:

- One element replaces another in a compound



- Double Displacement:

- Ions switch places (same charge)



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